



EXPLANATION
VIRGINIA DISTRICT
(Adapted from F. B. Laney, 1917)

- Ov**
Virgilina greenstone
Grayish-green chlorite-epidote schist (phyllite), in part porphyritic and amygdaloidal; derived from andesitic flows and tuffs
- Oa**
Aaron slate
Gray to greenish-gray quartz-chlorite slate (phyllite) with silty sandstone and conglomerate, and some interbedded greenstone; derived from andesitic pyroclastic material and land waste
- Oh**
Hycio quartz porphyry
Light-gray to purplish-gray quartz-sericite schist (phyllite) having lenticular grains of quartz and feldspar; in places more massive and porphyritic, and locally effusive; derived from rhyolitic flows and ash
- Og**
Goshen schist
Light-gray sericite schist (phyllite); derived from rhyolitic tuff; probably a phase of Hycio quartz porphyry
- gn**
Mica gneiss and hornblende gneiss
Light- and dark-gray, fine to coarse mica gneisses, mica schist, and fine granitoid layers, with veins and lenses of pegmatite and of quartz; resembles Carolina gneiss of Darton and Keith (1901); interbedded greenish-black, medium-grained, well-banded hornblende gneiss; resembles Roan gneiss of Keith (1903)
- rgr**
Red oak granite
Light-gray, medium-grained, biotite granite
- bgr**
Buffalo granite
Light-gray, coarse-grained, porphyritic biotite granite
- agb**
Abbyville gabbro
Greenish-gray, coarse-grained hornblende gabbro, in part altered to soapstone; and black to dark-brown, fine- to medium-grained hypersthene-augite gabbro

HAMME DISTRICT

- td**
Diabase
Black to dark greenish-gray, medium-grained, massive diabase dikes; includes some hypersthene tonalite dikes
- gr**
Albite granodiorite
Dark-gray, medium- to coarse-grained, massive to porphyritic albite granodiorite; many inclusions of phyllite and gneiss; also includes small areas of hornblende gabbro
- gb**
Hornblende gabbro
Gray to black, medium- to coarse-grained hornblende gabbro; includes a few dikes of hornblende basalt and some small areas of hornblende granite
- bs**
Metabasalts
Massive basalt, basalt porphyry, and amygdaloid; includes some interbedded metafelsite, greenstone, and chlorite phyllite
- fl**
Metafelsite
Massive to poorly foliated, light to medium dark volcanic rocks; includes some metatuff and breccia, rhyolite (?), and metabasalts
- gs**
Greenstone
Poorly foliated greenstone and amygdaloid, with interbedded chlorite phyllite
- ph**
Phyllite
Sericite-chlorite phyllites with interbedded quartzite and metaconglomerate; consists mainly of meta-tuffs; in areas of reconnaissance mapping includes greenstone
- bgn**
Biotite gneisses
Gray equigranular and porphyroblastic mica gneisses; includes minor hornblende gneiss, biotite schist, and interbedded sericite-chlorite phyllites

Middle or upper Paleozoic (?)
Lower Paleozoic (?)
Metamorphosed sedimentary and volcanic rocks, relative ages uncertain

ORDOVICIAN (?)
PRECAMBRIAN
AGE UNKNOWN
TRIASSIC
PALEOZOIC (?)

Base compiled from North Carolina State Highway and Public Works Commission county road maps and U. S. Geological Survey quadrangle maps

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—61175

Geology mapped by J. M. Parker, 3d, 1949-53; and M. H. Staats, 1954

APPROXIMATE MEAN DECLINATION, 1967

GENERALIZED GEOLOGIC MAP AND SECTION OF THE HAMME TUNGSTEN DISTRICT
AND PART OF THE VIRGINIA DISTRICT, NORTH CAROLINA AND VIRGINIA

SCALE 1:125,000

2 1 0 2 4 6 MILES

Strike and dip of foliation
Includes slaty or phyllitic cleavage, schistosity, and gneissic banding

Strike of vertical foliation

Contact
Dotted where concealed by water; queried where doubtful

Syncline, showing trace of axial plane and bearing and plunge of axis

Mine